Control ports for Chassis Cluster configuration on SRX1400

[KB20916] Show KB Properties

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SUMMARY:

This article provides information on how to implement a chassis cluster on the SRX1400 device.

PROBLEM OR GOAL:

From Junos 11.1, High Availability is supported on SRX1400. This is different from the SRX3000 device, which has dedicated control port for the **ge-0/0/10** and **ge-0/0/11** control links that will be used as control ports, when the Chassis Cluster is enabled.

The physical link status of the control ports is down, but the ports are connected back to back. Why are they down?

CAUSE:

SOLUTION:

The Chassis Cluster control port 0 and port 1 can only be **ge-0/0/10** and **ge-0/0/11**, when the Chassis Cluster is enabled on a SRX1400 device.

The other configuration instructions can be found in the TN10 Tech Note for high-end SRX devices. For more information, refer to KB15650 - SRX Getting Started - Configure Chassis Cluster (High Availability).

Configuration for the Chassis Cluster:

```
{primary:node0}[edit]
root@srx1400-1# show chassis cluster
reth-count 2;
redundancy-group 0 {
        node 0 priority 200;
        node 1 priority 100;
}
redundancy-group 1 {
        node 0 priority 200;
        node 1 priority 100;
}
```

The special configuration is no longer required:

```
{primary:node0}[edit]
root@SRX1400-1# run show chassis cluster information
node0:
--------------------------------------------------------------------------
Redundancy mode:
         Configured mode: active-active
         Operational mode: active-active
Control link statistics:
         Control link 0:
                 Heartbeat packets sent: 73138
                 Heartbeat packets received: 5905
                 Heartbeat packet errors: 0
                 Duplicate heartbeat packets received: 5685
         Control link 1:
                 Heartbeat packets sent: 73138
                 Heartbeat packets received: 9955
                 Heartbeat packet errors: 0
                 Duplicate heartbeat packets received: 93
         Control recovery packet count: 0
         Sequence number of last heartbeat packet sent: 73135
         Sequence number of last heartbeat packet received: 5732
Fabric link statistics:
         Probes sent: 73135
         Probes received: 6945
         Probe errors: 0
         Probes not processed: 6692
         Probes dropped due to control link down: 0
         Probes dropped due to fabric link down: 0
         Sequence number of last probe sent: 73135
         Sequence number of last probe received: 5732
Chassis cluster LED information:
         Current LED color: Green
         Last LED change reason: No failures
```

***Important**: 'ge-0/0/10' and 'ge-0/0/11' will be physical link down, when the chassis cluster is enabled; even when directly connected back to back.*

To check the control links status, issue the **show chassis cluster interfaces** command. If either link is up, the control link status will be up. So, to check if both the control links are up, issue the **show chassis cluster information** command to check if both of the control links send and receive heartbeats.

```
{primary:node0}
root@SRX1400-a> show chassis cluster interfaces
Control link 0 name: em0
Control link 1 name: em1
Control link status: Up
```

```
Fabric interfaces:
Name Child-interface Status
fab0 ge-0/0/2 up
fab0
fab1 ge-4/0/2 up
fab1
Fabric link status: Up
```

PURPOSE:

Configuration
Implementation

RELATED LINKS:

Control link failed to come up after the SYSIO card was replaced in a SRX1400 chassis cluster